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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,102	07/15/2002	Stefan Hlibowicki	3419-516 HSF	5034

1059 7590 06/07/2004

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TORONTO, ON M5H 3Y2
CANADA

EXAMINER

LEE, PING

ART UNIT	PAPER NUMBER
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2644

DATE MAILED: 06/07/2004

10

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/088,102

Applicant(s)

HLIBOWICKI ET AL.

Examiner

Ping Lee

Art Unit

2644

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Oath/Declaration

1. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

It does not identify the mailing address of each inventor. A mailing address is an address at which an inventor customarily receives his or her mail and may be either a home or business address. The mailing address should include the ZIP Code designation. The mailing address may be provided in an application data sheet or a supplemental oath or declaration. See 37 CFR 1.63(c) and 37 CFR 1.76.

It does not identify the foreign application for patent or inventor's certificate on which priority is claimed pursuant to 37 CFR 1.55, and any foreign application having a filing date before that of the application on which priority is claimed, by specifying the application number, country, day, month and year of its filing.

It does not identify the city and either state or foreign country of residence of each inventor. The residence information may be provided on either on an application data sheet or supplemental oath or declaration.

2. Receipt is acknowledged of papers filed under 35 U.S.C. 119 (a)-(d) based on an application filed in Canada on 9/22/1999. Applicant has not complied with the requirements of 37 CFR 1.63(c), since the oath, declaration or application data sheet does not acknowledge the filing of any foreign application. A new oath, declaration or application data sheet is required in the body of which the present application should be identified by application number and filing date.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 6, "the first speaker subassembly" and " the second speaker subassembly" lack clear antecedent basis.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greenberger in view of Hirasawa.

Regarding claims 1-3, 11, Greenberger shows the first (40) and second speaker (any of 20, 22, 24, 26) assemblies and coupling means (cables and room). Although not explicitly shown, every second speaker inherently has its own audio response characteristics different from the other speakers. Greenberger shows that each second speaker assembly has its own function which will produce signal in different frequency response and different audio content. Greenberger fails to show the switch means in an equalization unit.

Hirasawa teaches that there are several speaker arrangements for listening to the sound from a TV. Figs. 1-3 shows various embodiments. Hirasawa teaches an equalization unit with switch means for generating different outputs with different speaker configurations. Thus, it would have been obvious to one of ordinary skill in the art to modify Greenberger's system in view of Hirasawa by selectively connecting the second speaker assembly to the first speaker assembly (40) and changing the equalization corresponding to the selection in order to allow the user to have more flexibility of the physical arrangement of the speaker system and the lowering the cost of requiring to have four speakers.

Regarding claim 4, although not explicitly shown, the cable inherently has a pair of electrical connections.

Regarding claim 5, although not explicitly shown, the cable inherently has mechanical connections for fixing the cable to the first and second speaker assemblies in order to integral the first and second speaker assemblies into an audio reproduction unit.

Regarding claim 6, Greenberger shows, in Fig. 8, two sockets (plugs) on the first speaker assembly. Although not explicitly shown, the wires on the second speaker assembly (22 and 24, for example) inherently have two complementary sockets to providing mechanical connection (fixed pins into the sockets) and electrical connections (transmitting audio signal).

Regarding claims 7, 14 and 16, Greenberger in view of Hirasawa has the claimed amplification and equalization circuit.

Regarding claim 8, the claimed fixed filter mode reads on the embodiment as taught in Hirasawa (e.g. Fig. 3) when the user does not push any button, the claimed manual mode reads on the embodiment in Hirasawa when the user push the button.

Regarding claim 9, Hirasawa teaches the amplification circuit (3, 5, 17, 20) and equalization circuit (2, 16, 19).

Regarding claim 10, the claimed output section reads on 2 in Fig. 2a of Hirasawa for having parameters relating to a desired loudspeaker response (left and right channels are intended for left and right speakers), the claimed at least one additional section reads on elements 16, 19, 17, 20 of Hirasawa having parameters corresponding to a desired target response (desired center and/or surround channel) and parameters of a known second speaker system (whether the center and/or surround speakers have been connected to the system). Since Greenberger shows the equalization circuit having parameters related to the response characteristics of the low frequency speaker (col. 11, lines 29-31, 59-61), Greenberger in view of Hirasawa teaches the claimed equalization circuit.

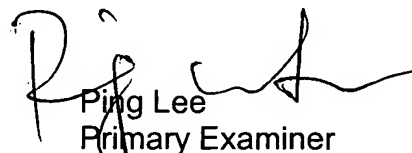
Regarding claim 12, Hirasawa teaches the section with fixed parameters (16, 19) and a section including manual control (17, 20).

Regarding claim 13, Hirasawa teaches the subtraction filters (2 in Fig. 2a; the L, R, C, S are derived based on subtraction and addition).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ping Lee whose telephone number is 703-305-4865. The examiner can normally be reached on Monday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Ping Lee
Primary Examiner
Art Unit 2644

pwl